, YUGOSLAVIA/Nuclear Physics - Installations and Instruments.

Methods of Measurement and Research.

: Ref Zhur Fizika, No 3, 1960, 5143 Abs Jour

: Debenec L. Kramer, V., Marsel, J., Vrscaj, V. Author

: Mass Spectrometric Measurements of UF6 Inst

Title : Repts. LL J. Stefan 77 Inst., 1958, 5, 33-39 Orig Pub

: A Nier-type 600 mass spectrometer with a resolution of Abstract

350 was used to measure the isotopic ratio U238/U235 when UF6 is introduced into the instrument. The UF6 can be introduced in a viscous stream through two capillaries, from vessles located in a thermostatic bath. One vessel contains UF6 with natural contents of isotopes. The measurement of the isotopic ratio was carried out by comparing the intensity of the mass lines 330 and 383 in multiple magnetic or electric scanning. For exact measurements of small differences in the isotopic ratios of two specimens,

Card 1/2

YUGOSLAVIA/Nuclear Physics - Installations and Instruments.

Methods of Measurement and Research.

C-

Abs Jour : Ref Zhur Fizika, No 3, 1960, 5143

use was made of the method of successive inlet of the samples. The "memory" effect of the instrument to old, previously admitted samples, was investigated. It is shown that in the case of a small difference in the isotopic ratios of the specimen, it is enough to stop the apparatus for two minutes for evacuation between measurements. It is established that the isotopic ratio U<sup>2</sup>38/ uranium is 138.2 ± 0.4. Ye.L. Frankevich

Card 2/2

- 14 -

VRSCAJ, V.; FURMAN, V.; DEKLEVA, J.

Nier's metallic mass spectrometer, p. 2. ELEKTROTEHNISKI VESTRIK.

(Institut za elektrisko gospodarstvo, Fakulteta za elektrotehniko in

Institut za elektrozveze) Ljubljana. Vol. 23, no. 11/12, 1955.

So. East European Accessions List Vol. 5, No. 9 September, 1956

VRSEAV

F-1

CZECHOSLOVAKIA/Magnetism - Experimental Methods of Magnetism

Abs Jour

: Ref Zhur - Fizika, No 1, 1958, 1126

Author

: Vrseaj, Stane

Inst Title : Stabilization of Megnetic Fields with the Aid of Nuclear

Resonance.

Orig Pub

: Repts "J. Stefan" Inst., 1955, 2, 101-105

Abstract

: Description of an electromagnet and a device that stabilizes the field with the aid of magnetic nuclear resonance. The magnet (weighing 500 kg) produces a field intensity of 2500 -- 5400 gauss. The diameter of the pull pieces is 12 cm, the gap is 4 cm, the inhomogeneity in the field is 0.03 gauss-cm<sup>-1</sup>. The transducer employed is a tuned circuit fed from a quartz-stabilized oscillator. The control signals are worked out by a synchronous detector and regulate the magnetic field with the aid of two pairs of additional coils, fed by the plate current of the control

Card 1/2

VRSEC, Ernest, ing. The proposal for the standard on roughness of superficies. Automatika 2 no.3:177-178 Ag 161. (Yugoslavia-Standardization)

KASPAR, Jiri, dr.; VRSECKY, Arnost, ins.

Methods of establishing and using the technical and economic indexes of capital investment in the food industry. Prum potravin 13 no.6:286-289 Je '62.

1. Ministerstvo potravinarskeho prumyslu, Praha.

### VRSECKY. A.

Evaluation of the economic efficiency of technical development and construction of buildings for bakeries under the investment plan. (To be contd.) p. 45.

TECHNIKA VYKUPU, MLYNARSTVI A PEKARSTVI. (Ministerstvo potravinarskeho prumyslu a vykupu zemedelskych vyrobku a Sdruzeni mlynu a pekaren) Praha, Czechoslovakia, Vol. 5, no. 1, Jan. 1959.

Monthly List of East European Accessions (EEAI), IC Vol. 9, no. 2, Feb. 1960

Uncl.

VRSECKY, A.

Evaluation of the economic efficiency of techical development and construction of buildings for bakeries under the investment plan. (To be contd.) p. 94.

TECHNIKA VYKUPU, MLYNARSTVI A PEKARSTVI. (Ministerstvo potravinarskeho prumyslu a vykupu zemedelskych vyrobku a Sdruzeni mlynu a pekaren) Praha, Czechoslovakia, Vol. 5, no. 2, Feb. 1959.

Monthly List of East European Accessions (EFAI), LC Vol. 9, no. 2, Feb. 1960.

Uncl.

### VRSECKY, F.

"Higher efficiency in breweries and malt kilns." P. 57.

KVASNY PRUMYSL. (Ministerstvo potravinarskeho prumyslu). Praha, Czechoslovakia, Vol. 5, No. 3, Mar. 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959. Uncla.

BENES, F., ins., CSc.; VRSEK, J., inz.; MAKARJEV, P., inz.; OLEJ, J., inz.

Quality characteristics and structure of low-carbon steels in continuous casting. Hut listy 18 no. 12:850-858 B: \*62.

- 1. Vyzkumny ustav hutnictvi zeleza, Praha (for all except Olej).
- 2. Svermove zeleziarne, Podbrezova (for Olej).

VRSEK, J., inz.; BENES, F., inz., CSc.; SZABO, A., inz.; STENO, J., inz.

Problems of continuous casting of low-carbon steels. Hit listy 18 no.11:773-779 Nº63.

- 1. Vyzkumny ustav hutnictvi zeleza, Praha (for Vrsek and Benes)
  2. Svermove zeleziarne, Podbrezova (for Szabo and Steno).

MYSLIVEC, Theodor; CADEK, Josef; MANDL, Miroslav; VRSEK, Jaroslav; BRODSKY, I.; LUBOVSKY, M.

Effect of the quality of ceramic runners on the micropurity of steel used for making railway wagon tires. Part 2: Investigation on determining the origin of nonmetallic inclusions in steel by radioactive isotopes. Hut listy 16 no.2:94-102 F '61.

1. Wyzkumny ustav, Vitkovicke zelezarny Klementa Gottwalda, Ostrava (for Myslivec, Brodsky and Lubovsky). 2. Wyzkumny ustav hutnictvi zeleza, Praha (for Cadek, Mandl and Vrsek).

L h1h78-55 EWT(d)/EWT(m)/EWP(w)/EWP(f)/EWP(c)/EWP(v)/EPR/T/EWP(k)/EWP(h)/EWP(1)/ EWA(c) 1f-4 MM AMAGA8147 HOCK EXPLAITATION (7)

Vrsinsky, Bohumir (Engineer); Blatny, Jiri (Engineer)

Handbook for aircraft mechanic; piston engines (Prirucka leteckeho motorare I; pistove motory) Frague, Nakl. dopravy a spoju, 1964. 379 p. illus., biblio. (fold. diagrs.) 2000 copies printed

TOPIC TAGS: aircraft engine, aircraft mechanic, sircraft piston engine

PURPOSE AND COVERE: The book is intended for mechanics and other shop personnel working in the production, testing, and operating of aircraft piston engines. The book describes the design, production, testing and operating of aircraft piston engines, and is intended to fill the gay between theoretical works on the one band and work shop manuals on the other. The book is written at the level

### "APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961220003-7

TABLE OF CONTENTS [Abridged]:

Preface -- 5

Card 1/#

VRSOUSKIY, E.

czaca/3-59-10-11/37

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AUTEOR:

Locale, J., Vrioveri, E.

Leedk, J., Vrioveky, E. Further Respond to the Gliding Section Challenge (Dalli chias na vysvu plachterské sekce)

AUTHORI

PERIODICAL: Efficia Vianti, 1959, Mr 10, lower part of p 7 (CER) Article deals with the contributions towards the 4th CPZ (National Olider Championship) fund drive by the Liberec Regional Aeroclub, Ecclevice Aviation Station and Pochofany Olider Tow Station.

Card 1/1

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961220003-7"

VRSOVSKY, Pavel

Experimental photoconductive pickup electron tuber sensitive to X-rays. Shor vak elektrotech 4:145-155 '64.

1. Research Institute of Vacuum Electrical Engineering, Prague.

VERAR, B.; PLOPIDIL, C.

Typological tooling of imprepultive tar oils. p. 177.

DRVNA INDUSTRIJA. (fastitut za drvno-industrijska istrasivanja) Jagreb, Yugoslavia. Vol. 9, no. 11/13, Nov./Dec. 1958

Monthly list of Rest European Accessions (EARI) 16, Vol. 8, no. 6, June 1959 Uncl.

Z/014/61/000/008/003/007 E192/E382

AUTHORS: Dusek Dzenek Engineer and Vrtek Frantisek,

Fngineer

TITLE Influence of the Stray Magnetic Field of a Dynamic

Loudspeaker on Ferrate Antennae

PERIODICAL: Scielovací technika, 1961, No. 8, pp. 290 - 291

TEXT: The results of an experimental investigation of the influence of a constant magnetic field on ferrite antennae are reported. Also, the stray magnetic fields of three dynamic loudspeakers having a diaphragm with a diameter of 200 mm and magnets of ALNI (type ARO 511), ALNICO (type ARO 533) and an anisotropic oriented ferrite were measured. Several types of ferrite antennae made from LHB (lithium-zinc-ferrite) with unitial permeability  $\mu_i \sim 50$  and N1B (nickel-zinc-ferrite)

and N2 (also nickel-zinc-ferrite) with  $\mu_i \sim 200$  were used in the investigation. The changes of the permeability of the antenna coil due to the constant magnetic field were measured at a frequency of 1 Mc/s by means of a Q-meter. The ferrite

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Z/014/61/000/008/003/007 E192/E382

Influence of the Stray ....

antenna with its coil was placed in the field of a magnetisation solenoid, where the field could be varied continuously between 0 and 100 0e. The percentage permeability changes as a function of the applied magnetic field for the three types of ferrite are illustrated in Fig. 1. It is seen that the effect of the external magnetic field on the permeability is less pronounced in the antennae having higher initial permeability. The change of the permeability of the coil depends on the shape of the antenna, in particular, on the so-called demagnetisation factor. N of the antenna, which is proportional to the ratio factor. N of the antenna, which is proportional to the ratio diameter. The actual magnetic field acting on the antenna is defined by:

H:

N 1 + πασπ (μ = 1)

where  $H^c$  is the external magnetic field. If the data of Fig. 1 are resplotted by taking N into account; it is found Card 2/4

Z/014/61/000/008/003/007 E192/E382

Influence of the Stray ....

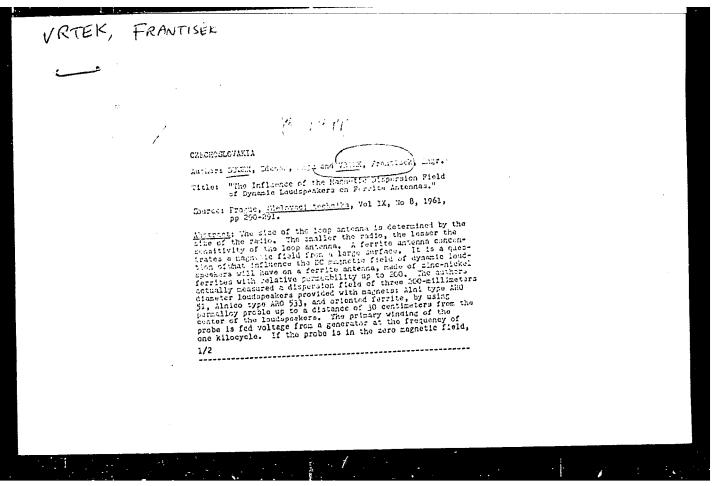
that the influence of the external field is the same for all three types of antenna. In practice, the source of the external field in a radio-receiver is the stray field of the dynamic loudspeaker. Such fields for the above three loudspeakers were measured by means of a permalloy probe containing two primary windings of 240 turns each and a secondary winding of 9 000 turns. The stray field for the ALNI magnet is illustrated in Fig. 5; this shows the lines of constant field in polar coordinates. The fields of the other two loudspeakers are similar in shape to that shown in Fig. 5.

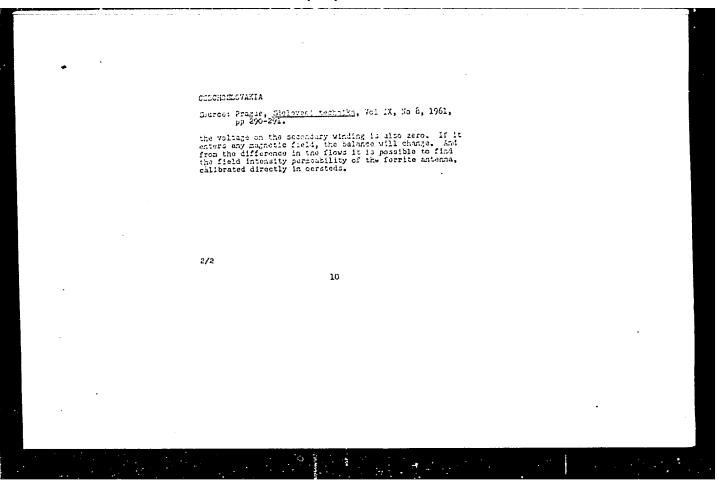
There are 7 figures and 2 references: 1 Czech and 1 non-Czech.

Card 3/4

DUSEK, Zdenek, inz.; VRTEK, Frantisek, inz.

Influence of the magnetic dispersion field of dynamic loudspeakers on ferrite antennas. Sdel tech 9 no.8:290-291 Ag '61.





MALIK, J., ing. ((zechoslovakia); VRTEK, J.ing. (Czechoslovakia)

Some considerations on power demand of iron metallurgical plants. Ipari energia 5 no.3:56-57 M 64.

# VRTEL, J. "Technology of nuclear reactors" by P. Ageron, A. Bonaldi, N. Gausit and T.Reis. Vol. 1: "Materials". Reviewed by J. Vrtel. Jaderna energie 6 no.3:108 Mr '60.

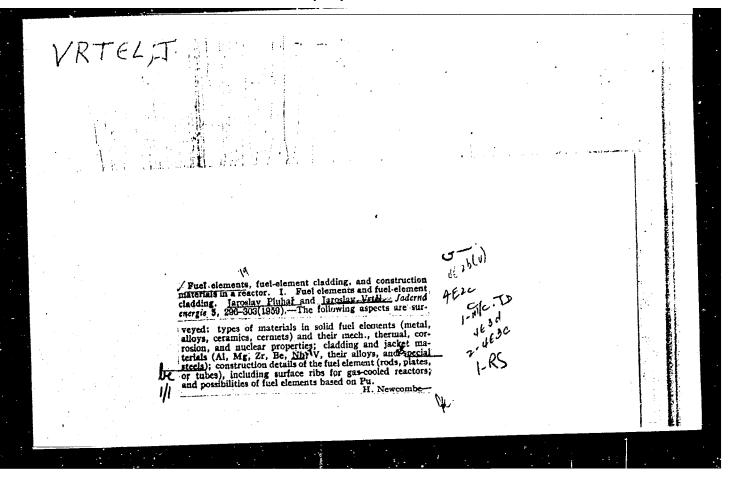
# VRTEL, Jaroslav

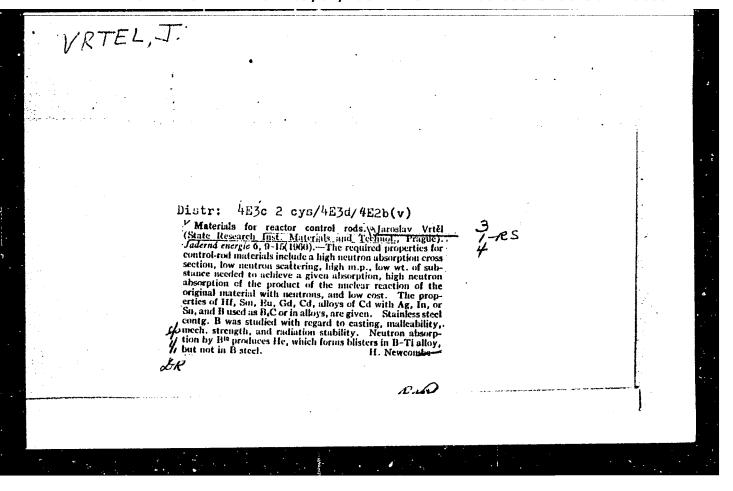
Problem of materials in increasing the operational capacity of nuclear power plants. Jaderna energie 4 no.3:80-84 Mr 158.

1. Vyzkumny ustav materialu a technologie, Praha.

VRTEL, Jaroslav

Research on nuclear physics and engineering in Yugoslavia. Jaderna energie 4 no.6:175 Je 158.





### VRTEL, J.

Materials used in the construction of pressure tank of the reactor of Experimental Nuclear Power Plant in Kahl, German Federal Republic. Jaderna energie 7 no.8:280-281 Ag '61.

VRTEL,	J.
	Effect of neutron radiation on beryllium. Jaderna energie 7 no.12: 415-416 D '61.

VETEL, J.; PLUMAN, J.

Fuel elements, cladding and reconcr-construction naterials. I. Tuel elements and cladding. (To be conid.) p. 296.

JARDERNA ERERCIE. (Tinisterstvo energetiky) Praha, Czeckosloviakia Vol. 5, no. 7, Sept. 1959

Monthly Mast of East European Accession, (FEAI), IC, Vol. 8, No. 12, Dec. 1959 Uncl.

VRTEL, J.; PLUMAR, J.

Fuel elements, fuel-element cladding and reactor-construction materials. II. Reactor-construction materials. (To be conta.) p. 331.

JADENIA ENTROIE. (Ministerstvo energetiky) Praha, Gzeckosloviakia Vol. 5, no. 10, Oct. 1959

Monthly List of East European accession, (ECMI), LC, Vol. 8, No. 12, Dec. 1959 Uncl.

VRTEL, J., inz. CSc.

Micromechanism of the brittle fracture of steel. Strojirenstvi 14 no.12:929-936 D '64.

1. State Research Institu a of Material and Technology, Prague.

Milos VRTEL

SURNAME, Given Names

Country: Czechoslovakia

Academic Degrees:DVM

Department of Obstetrics and Gynecology, Veterinary Faculty (Porodnicko-Affiliation: gynekologicke katedra veterinarni fakulty) Brno; Head /prednosta/ Dr E.

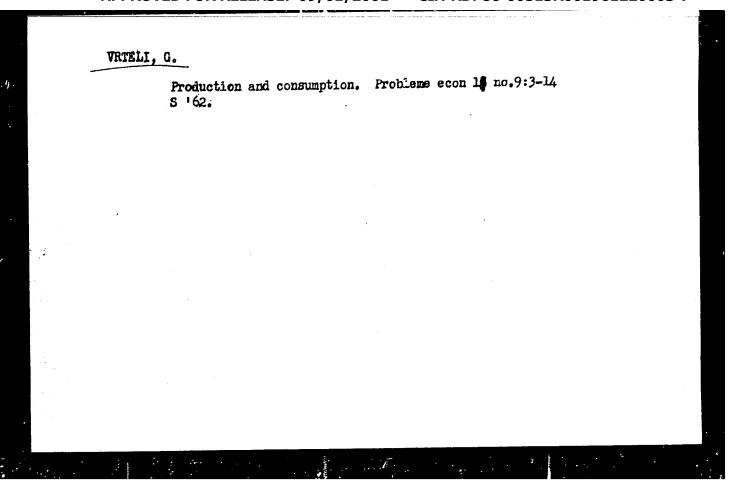
PRIBYL, Dr Sc

Source: Prague, Veterinarstvi, Vol 11, No 10, Oct 1961; pp 381-385

Data Figherility in Amall Ruminanta"

KUDLAG, Eduard VRTEL, Milos

670 981643



VRTELI, G., candidat in stilnte economice

Process of the expanded reproduction during the stage of the completion of building socialism. Probleme econ 14 no.7:16-26 Jl '61.

### CIA-RDP86-00513R001961220003-7 "APPROVED FOR RELEASE: 09/01/2001

CZECHOSLOVAKIA/Virology - Human and Animals Viruses.

E-3

: Ref Zhur - Biol., No 12, 1958, 52633

Author

: Vrtiak, J., Frano, J., Belobrad, G.

Inst

: Isolation of Newcastle Disease Virus in Fartridges and Title

Its Properties.

Orig Pub : Veterin. casop., 1957, 6, No 5, 353-362

Abstract : No abstract.

Card 1/1

- 5 -

### CIA-RDP86-00513R001961220003-7 "APPROVED FOR RELEASE: 09/01/2001

YUGOSLAVIA/Microbiology - General Microbiology.

F

Abs Jour

: Ref Zhur Biol., No 1, 1959, 618

Author

: Vrtar, B.

Inst

Title

: New Tannin Method for Obtaining Proteolytic Enzymes from

Microorganisms.

Orig Pub

: Glasnik biol. sek. Hrvatsko prirosodl. drustvo, 1953

(1955), Ser. 2B, 7, 374-375

Abstract : No abstract.

Card 1/1

VRIAR, B., LUETIC, F.

"Problems and experiments in the production of functic acid." p. 69. (KETIATINGULTRIJI, Vol. 2, no. 3, 1993, Lagrab.)

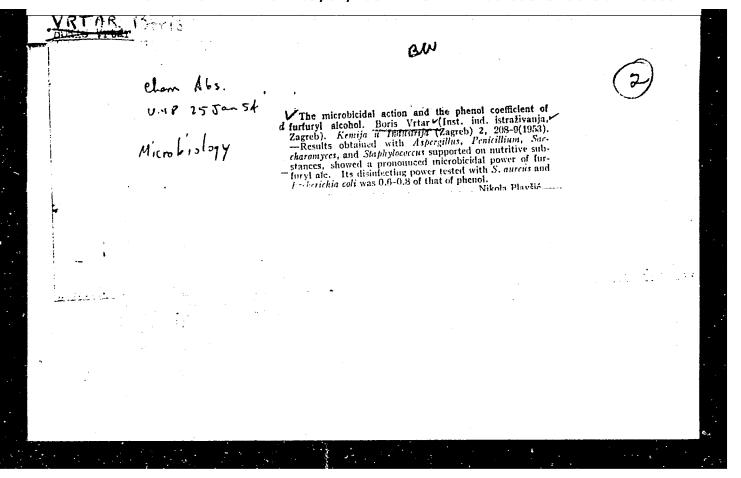
30: Monthly List of East European Accessions, Vol. 2, #3, Library of Googress August, 1953, Uncl.

VRIAR, R., LUETIC, P.

"Problem and experiments of the production of funaric scie." (To be conti.) p. 40.

(KE IJA U POUCTRIJI, Vol. 2, no. 2, 1953, Zerob.)

So: Fonthly List of East European Accessions, Vol. 2, #8, Library of Congress August, 1953, Uncl.



# VETARIC, I. Can the choice of freight cars for export shipments be simplified? p. 260. (ESCERAD, VGL 10, "o. 7, "uly 1954.) SO: Monthly Lists of East European Accessions. (ESAL, LC, Vol 4, No. 6, "une 1955, Uncl.

## VETARIC, I. Freer arrangement of cers will accelerate their turning, p. 336. (BECGRAP, Vol. 10, No. 9, Sept. 1954.) SO: Monthly List of East European Accessions. (EEAL, 10, Vol. 4, No. 6, June 1955, Uncl.

WRTARIC, J

"Toward a uniform application of tariffs". (p. 41).

ZELEZNICE. (Jugoslovenske zeleznice) Beograd. Vol. 10, no. 2, Feb. 1954

SO: East European Accessions List. Vol. 3, No. 8, August 1954

TAPPED ENPERON LIPECTO ACC NR: AP6011971 SOURCE CODE: CZ/0057/65/000/003/0133/0135 AUTHOR: Vrtek, Jaromir (Engineer); Sobek, Jan ORG: NHKG, Ostrava B TITLE: Experience in construction and during first years of operation of the oxygen plant at the Klement Gottwald Nova Hut Iron Works SOURCE: Hutnik, no. 3, 1965, 133-135 TOPIC TAGS: furnace, krypton, xenon, oxygen The oxygen is produced as technical\_grade product, and ABSTRACT: used for increasing production rate in existing furnaces. A krypton concentrate plant is also in production, yielding a 40-80% Kr and Xe by volume. The oxygen plant is of Russian manufacture, and produces 4,700 \(\text{ \text{i}}\)/hof 95% 02, 280 \(\text{ \text{m}}\)/hof 99.2% 02, and 20 \(\text{ \text{m}}\)/hof a Kr - Xe concentrate with 0.1 to 0.2% of Kr and Xe. The compressors are of Brown-Boveri manufacture; units have a 32,000 Nm3/heapacity at 6.5 atp pressure. Start-up difficulties of the plant are discussed. Shortcomings of the design of the oxygen plant are described. Orig. art. has: 2 figures and 1 table. [JPRS] SUB CODE: 13 / SUBM DATE: none Steel Making 18

L 20211.-66 EPF(n)-2/EMP(v)/T/EMP(t)/EMF(k) LUP(c) 3D/MAYOU SOURCE CODE: 02/0032/65/015/007/08 9/08/00 AUTHOR: Vrtel, J. (Engineer; Candidate of sciences); Syoboda, M. (Engineer); Sicha, f. ACC NR: AP6010340 ORG: [Vrtel; Svoboda] State Research Institute of Material and Technology, Prague (Statni vyzkumny ustav materialu a technologie); [Sicha] Klement Gottwald Iron Works in Vitkovice, Ostrava (Viktovicke zelezarny Klementa Gottwalda) TITLE: Fine-grained, niobium-alloyed weldable steel SOURCE: Strojirenstvi, v. 15, no. 7, 1965, 512-520 TOPIC TAGS: steel, niobium steel, solid mechanical property, metal property, weldability, niobium alloy, niobium, 13,032 niobium steel ABSTRACT: The article reports detailed information on a new fine-grained niobium alloyed steel recently developed in Czechoslovakia and standardized as No. 13,032. The article briefly explains the effect of niobium on the mechanical properties of steel and compares the new steel with existing standard types employed for similar purposes. This paper was presented by J. Raiman, Engineer. Orig. art. has: 13 figures and 11 tables. [JPRS] SUB CODE: 11, 13 / SUBM DATE: none / ORIG REF: 009 / OTH REF: 003 Z 669.14.018.29:669.14.018.62:669.293 UDC:

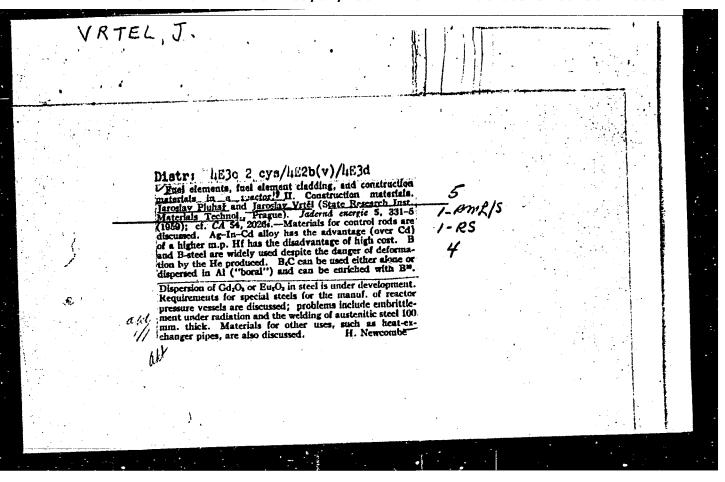
### TRIEL, J.

Heat treatment of electrosis; welfs. 2. 304.

ZVARANIE. (Ministerstvo hetnoho pryzyslu a rudnych bani a Ministerstvo strojeronstva) Eratislava, Czechoulovakia. Vol. 8, no. 6, June 1959.

Monthly list of most European Accessions (MNIA) Vol. 9, no. 1, Jan. 1966.

Uncl.



VRTEL, J	TRIEL.				
	Material problems of pressure vessels for nuclear rescious.  Jaroslay Vrtel (State Research Inst. Materials and Technol.  Jaroslay Vrtel (State Research Inst. Materials and Technol.  Frague). Jaderid energis 5, 397-404 (1959).—The material for construction of pressure vessels, in order to be safe and not require repairs for 25 yr., must keep its max. mech. not require repairs for 25 yr., must keep its max. mech. stress is due not only to the pressure difference, but mech. stress is due not only to the pressure difference, but also to the heat produced by steady operation of the reactor, also to the heat produced by steady operation of radia- by sudden stopping or starting, and by absorption of radia- tion in the walls. The use of thin walls decreases the heat tion in the walls. The use of thin walls decreases the heat tion in the walls. The use of thin walls decreases the heat tion in the walls. The use of thin walls decreases the heat tion in the walls. The use of thin walls decreases the heat tion in the walls. The use of thin walls decreases the heat tion in the walls. The use of thin walls decreases the heat tion in the walls. The use of thin walls decreases the heat tion in the walls. The use of thin walls decreases the heat tion in the walls. The use of thin walls decreases the heat tion in the walls. The use of thin walls decreases the heat tion in the walls. The use of thin walls decreases the heat tion in the walls. The use of thin walls decreases the heat tion in the walls. The use of thin walls decreases the heat tion in the walls. The use of thin walls decreases the heat tion in the promoters the promoters to con- stress, but requires high mech. strength. In order to con- stress, but requires high mech. strength. In order to con- stress, but requires high mech. strength. In order to con- stress, but requires high mech. strength. In order to con- stress, but requires high mech. strength. In order to con- stress, but requires high mech. strength. In order to con- stress, but requires high mech. streng	3 1-RS 3			
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Z/034/60/000/012/004/015 E073/E535

213310

Jaroslav, Engineer AUTHOR:

TITLE:

Steels and Cast Irons with High Boron Contents

PERIODICAL: Hutnické listy, 1960, No.12, pp.945-950

Work of various authors, including work presented at the Second International Conference on Peaceful Utilization of Atomic Energy in Geneva, related mainly to overcoming technological difficulties in producing formed ferritic and austenitic steels with as high a boron content as possible and particularly with achieving good malleability of such alloys. Lessattention was paid to the study of their structural conditions, which are of interest also outside the field of nuclear engineering. Therefore, the author carried out detailed investigations in 1958 at SVUMT for the purpose of getting to know the structure of boron containing steels The boron for alloying was produced and cast irons (Refs. 1,2). by reducing boron compounds or ferroboron was used for alloying. Speight (Ref.9) investigated the possibility of alloying steel with up to 0.003% B. His results were verified in Czechoslovakia by the tests of Skála and Tlustá (Ref.10) who achieved alloying with boron up to 0.4%. The authors used on the one hand non-aqueous Card 1/3

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Steels and Cast Irons with High Boron Contents The chemical remolten borax and on the other hand boron oxide. composition of the melt during the reaction is given for a typical case of cast iron in Table 1. The reaction proceeded between 1350 and 1450°C, the weight ratio of the quantity of borax to the quantity of metal was 1:10. After 30 min the boron content was 0.17%, after 60 min it was 1.46%. The time dependence of saturation of the metal with boron during reduction of boron compounds is graphed in Fig.1 for steel with 0.07 and 0.19% C and for cast iron with 3.75 and 1.90% C, both in the case of using borax and in using  $B_2^{0}$  for the reaction. For obtaining higher boron contents, ferroboron was mainly used, as a result of which boron contents of up to 5.54% were achieved. The thus produced materials were investigated to determine their mechanical properties, structural composition and the influence of heat treatment. Particular attention was paid to studying the phase compositions of such cast In the cast irons the boron enters into the cementite or forms the carbide Fe<sub>23</sub> (C,B)<sub>6</sub>; depending on the B; C ratio in steel the stable boride Fe<sub>2</sub>B occurs and the authors did not succeed to dissolve it in the  $\alpha$ -iron. As a result of this, the Card 2/3

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Z/034/60/000/012/004/015 E073/E535

Steels and Cast Irons with High Boron Contents

improvement of the properties of steel and cast iron with over 1% B by heat treatment is very limited. The influence of the heat treatment is practically limited to globularizing the boride Fe,B of the borite eutectic. The properties of the Fe-B alloys are determined by the chemical composition and particularly by the casting temperature and the speed of cooling etc. which influence the process of crystallization. In boron steels not containing other elements, the isolate consisted of Fe2B; if a strong carbide forming element, for instance Ti, was added, the appropriate carbide could be detected in addition to Fe<sub>2</sub>B. Additions of Cr and Al (up to 5.8% Cr and 3.5% Al) did not bring about the formation of a new phase; the Cr entered into the Fe<sub>2</sub>B lattice increasing its lattice parameter, whilst Al up to 3.5% is dissolved in the basic ferritic mass. As regards the influence of heat treatment, extensive tests have shown that the properties of boron containing steels cannot be decisively influenced by quenching and tempering, even if additions are chosen which increase considerably the hardenability (Cr for instance). There are 11 Figures, 5 tables and 16 references: 6 Czech, 3 German, 7 English. ASSOCIATION: SVÚMT, Praha (SVÚMT, Prague) SUBMITTED: August 12, 1960 Card 3/3

VRTEL, Jaroslav, inz. CSc.; RYSAVA, Marie, CSc.

Contribution to the study of secondary hardening of boiler steel with addition of molybdenum (Czechoslovak Standard 15 223). Hut listy 20 no.1:31-36 Ja '65.

1. State Research Institute of Materials and "echnology, Prague.

VETEL, J.

VRTEL, J. Effect of nitrogen on the quality of welded joints. p. 16.

Vol. 3, io. 1/2, 1954 SVARACSKY SBCRAIK TECHNOLCGY Eratislava, Czechoslovakia

So: East Europeon Accessions, Vol. 5, No. 5, Nay 1956

VRTEL, J.

Radioisotopes for controlling welded seams on pipelines. p. 760. STROJIRENSTVI. Vol. 4, no. 10, Oct. 1954.

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 5, No. 6, June 1956 Uncl.

CZ/38-60-1-5/24

AUTHOR:

Vrtěl, Jaroslav

TITLE:

Materials for Reactor Control Devices

PERIODICAL:

Jaderná Energie, 1960, No. 1, pp. 9 - 15

The author analyzes the qualities of materials used in the production of reactor control devices, regarding their effectiveness for this purpose. He specializes on various types of rods, such as control rods, compensator rods and emergency rods, which are designed to control and change the output of nuclear reactors and maintain the chain reaction. He also deals with the requirements these materials must meet and with the most important absorption materials, such as hafnium, rare earth elements, cadmium and boron. There are 15 diagrams, 4 tables, 9 photos and 10 references, 8 of which are American, 1 British and 1 Czechoslovakian.

ASSOCIATION:

Státní výzkumný ústav materiálů a technologie, Praha (State Experimental Institute for Materials and Technology, Prague)

Card 1/1

3/137/62/000/011/032/045 A006/A101

AUTHOR:

Vrtěl, Jaroslav

TITLE:

Steels and cast-irons containing over 1% boron for protecting and

regulating purposes

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 11, 1962, 88, abstract 111591 ("Material sb. SVUMT, 1959", Praha, 1960, 115 - 164,

Czech; summaries in Russian, German and English)

The author analyzed various methods of alloying steels and cast--irons with boron, in particular, by reduction of boron compounds or introducing Fe-B. The technical conditions are determined for the production of cast and forged steel, containing up to 5% B, and the physical and mechanical properties of steel at room and high temperatures are given, depending upon the B content. It was established that the mechanical properties of steel containing 2.5% B and 0.1% C can not be improved by heat treatment. The author presents the optimum chemical composition and heat treatment conditions of steel used for the casting of heat protection units for reactors. V. Srednogorska

[Abstracter's note: Complete translation]

Card 1/1

3/137/62/000/011/029/045 A006/A101

AUTHORS:

Svoboda, Miroslav, Vrtěl, Jaroslav, Šicha, František

TITLE:

Low-alloy weldable ferrite-perlitic steel with high toughness

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 11, 1962, 74 abstract 111479P, Czechoslovakian Patent no. 101219 of October 15,

1961)

The composition is given for a steel grade with high a at temperatures to - 100°C in delivery state which is suitable for the manufacture of large-TEXT: size parts. The steel contains in \$ : C 0.10 - 0.25, Ni 0.3 - 1.0 Al (in the solid solution) 0.02 - 0.20 Si  $\leq$  0.4, Mn 0.8 - 1.5. The steel may also contain carbide-forming elements, such as: Nb, Ta, Mo, V, Ti and Zr, separately or in combinations, up to 0.4%. Steel containing (int) C 0.11 Mn 0.94 Si 0.28 Ni 0.65 Al (in the solid solution) 0.1 Nb 0.09 shows at - 70°C a as high as 6 kgm/cm<sup>2</sup>. The temperature of transition to brittle state is - 100°C in delivery state, and - 70°C after deformation aging.

M. Shapiro

[Abstracter's note: Complete translation]

Card 1/1

41987 z/506/60/000/000/003/004 1037/1237

212400

AUTHOR:

Vrtol, Jaroslav, Engineer, Candidate for Technical Scien-

ces

Steels containing Boron for nuclear technique

TITLE: Prague. Statni vyzkumny ustav materialu a technologie. SOURCE:

Materialovy shornik, 1959. Prague, 1960, 115-164

TEXT: Results of experiments with steels and cast irons containing 1-5% Boron are reported. These steels are required for shielding and control purposes in nuclear reactors, especially where Cd113 cannot be used, as B has a large cross section for thermal neutrons. Another use of the B - steels is for heat screening between the active zone and the external coat. For the latter use high corrosion resistance and stability is required. The B - steels can be pre pared a) Up to 1.5% B by reduction of B - compounds by aluminium, the reduced B being incorporated into the alloy. b) Up to 5% B by The wrought steels without further additions have mechanical proper-

card 1/4

Z/506/60/000/000/003/004 1037/1237

Steels containing Boron...

ties, especially ductility and construction, superior to those achieved by Middleham. Addition of chromium improved strength but reduced ductility. However it considerably improved the mechanical properties at 300°C. The notch-bar test of toughness of steels containing more than 1% B yields low values (also due to the presence of Al in the alloy). The decrease in toughness depends also on the carbon content. Increase in carbon content enhances the effect of Al on decreasing the toughness. In any case, the Al content should be kept below 3.5%. In steels containing more than 2.5% E and more than 0.1% C no transformation occurs that would substantially improve the mechanical properties of the steel. It is advantageous to heat treat the boron containing steel castings at 920°C - 950°C for one hour and to anneal them at 680°C for 10 hours. This procedure improves the homogeneity of the steel.

Card 2/4

2/506/60/000/000/003/004 1037/1237

Steels containing Boron...

Metallographic, chemical and X-ray studies, as well as thermal analysis on steels with varying B content show that the present borides do not affect the metallic matrix. The properties of the B - steels are determined by the chemical composition and by technological factors (casting temperature, cooling rate affecting the crystal size). Carbon enters into reaction with B and Fe forming complex size). Garnon enters into reaction with B and Fe to ming complex fero-Boro-carbides of the type Fezz(C,B), which accompany iron borides alloyed with Al and Cr. Al and Cr also take part in alloying rides alloyed with Al and Cr. Al and Cr also take part in alloying of solid solution of ox iron (at low carbon content). Thus chrome of solid solution of ox iron (at low carbon content) are alloyed and alloyed with Al and Cr. ium fulfills a multiple function. It improves the mechanical properties of B - steels at slevated temporatures, it stabilizes the Boron containing components, and increases the steel resistance to-wards atmospheric corrosion. 3%-3.5% proved to be the optimal chro-mium content. Consequently, the steel for heat protection of reactors had the following composition: C 0.1%, B = 2.0 2.5%, Al = 2.0-2.5%, Cr = 3.0 3.5%, Ti = 1-1.2%.

Card 3/4

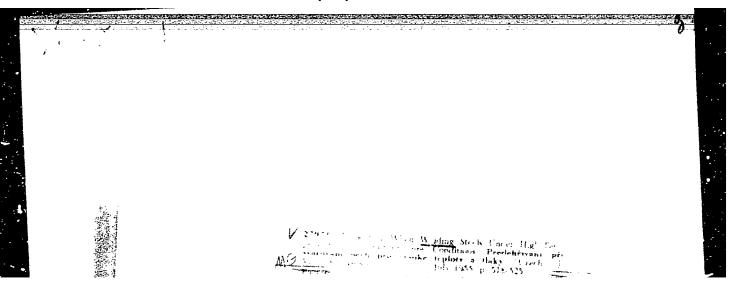
Z/506/60/000/000/003/004 1037/1237

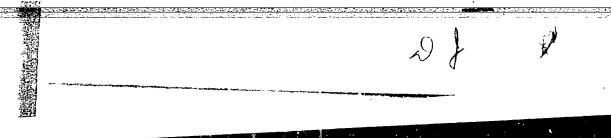
Steels containing Boron ...

Titanium (sometimes tungsten) was added for C and N binding to avoid Borocarbide and Boronitrite formation. Si is also frequently in amounts of between 1% and 5%. It improves stability and hardness as well. The complex phenomenon occurring in the steel at 500-700°C should be further investigated. The radiation effect on the different types of B-steel also required further consideration. There are 36 as of B-steel also required further consideration.

be further investigated. In the consideration. There are 36 as of B-stoel also required further consideration. There are 36 as of B-stoel also required further consideration. There are 36 as of B-stoel also required further consideration. There are 36 as of B-stoel also required further consideration. There are 36 as of B-stoel also required further consideration. There are 36 as of B-stoel also required further consideration. There are 36 as of B-stoel also required further consideration. There are 36 as of B-stoel also required further consideration. There are 36 as of B-stoel also required further consideration. There are 36 as of B-stoel also required further consideration. There are 36 as of B-stoel also required further consideration. There are 36 as of B-stoel also required further consideration. There are 36 as of B-stoel also required further consideration. There are 36 as of B-stoel also required further consideration. There are 36 as of B-stoel also required further consideration. There are 36 as of B-stoel also required further consideration. There are 36 as of B-stoel also required further consideration. There are 36 as of B-stoel also required further consideration. There are 36 as of B-stoel also required further consideration. There are 36 as of B-stoel also required further consideration. There are 36 as of B-stoel also required further consideration. There are 36 as of B-stoel also required further consideration. There are 36 as of B-stoel also required further consideration. There are 36 as of B-stoel also required further consideration. There are 36 as of B-stoel also required further consideration. There are 36 as of B-stoel also required further consideration. There are 36 as of B-stoel also required further consideration. The are 36 as of B-stoel also required further consideration. The are 36 as of B-stoel also required further consideration. The are 36 as of B-stoel also required further consideration. The are 36 as of B-stoel also required further consideration. The area as of B-stoel

Card 4/4





ACCESSION NR: AP5019910

02/0032/64/014/012/0975 097

AUTHOR: Vrtel, J. (Engineer, Andidate of sciences)

PURE: Micromechanism of brittle fracture of steel machine parts

SOURCE: Strojirenstvi, v. 14, no. 12, 1964, 929-936

TOTAL TABLE metal brittleness, metal fracture, metal deformation, steel, mechanical

eng neering

Abstract (Author's English summary, modified): The article presents a comprehensive survey of theories explaining tho mechanism of deformations and displacements in the structure of metals, occurring there on an atomic scale. The microsechanism of brittle fracture is an important factor because it initiates macroscopic cracks which may eventually cause failures

APPROVED FOR BELEASER 09/01/20018 (CFA-RDP86-00513R001961220003-7" institutes, the vital stage of the process, the vital stage of the process, institutes, the vital stage of the process, ation of the microscopic cracks, is not clear. In this respect the theories discussed in the article have a common weak & formulas. 11 graphs, and 3 tables.

ACCESSION NR: AP5019910

ASSOCIATION: SVUNT, Prague

SUBMITTED: 00 SUB CODE: IE, AS

NO REF SOV: 074

OTHER: 016

JPRS

C.4 7/2 200

EWA(d)/EWP(t)/EWP(z)/EWP(b) 137(4) CZ/0034/65/000/001/0031/0036 L 3764-66 AUTHOR: Vrtel, Jaroslav (Ingineer, Cardidate of sciences); Rysava, Marie (Cardidate of sciences) TITLE: Contribution to the study of secondary precipitation hardening of molybdenum containing boiler plate steel CSN 15223 SOURCE: Hutnicke listy, no. 1, 1965, 31-36 TOPIC TAGS: steel, precipitation hardening, molybdenum steel, electron microscopy, fabricated structural metal, toughness/CSN 15223 steel ABSTRACT: [Authors | English summary ]: CSN steel 15223 containing Mn and Mo has the same composition as U.S. steel A 302 B; electron microscopy technique was used in investigating factors that cause low notch toughness of thick plates made of this steel. It was found that hardening occurs in the steel during tempering, and is due to the precipitation of Mo<sub>2</sub>C carbide. Maximum hardening is with considerable madical and is the steel during tempering. and is due to the precipitation of Mogu carpide. Maximum hardening with considerable reduction in notch toughness appears at 600°C after 14 hours of temporing. Details of the microscopic examination of Mogu are presented, and the extent of its precipitation during heat treatment is discussed. Orig. art. has: # tables. 4 graphs, 14 figures. Card 1/2

3764-66 C NR: AP5027863 SOCIATION: SVUMT. Prague BMITTED: 00 R REF SOV: 001	ENCL: 00 OTHER: 00	8	SUB CODE:	MM, IE	
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Card 2/2					

### CZECHOSLOVAKIA

KUDLAC, E.; VRTEL, M.; Veterinary Faculty, Chair of Gynecology, College of Agriculture (VSZ, Veterinarni Fakulta, Katedra Porodnicko-gynekologicka), Brno.

"Comparative Study of the Caesarian Section in Cattle Carried out on Standing and Lying Animals from the Left Side."

Prague, Veterinarni Medicina, Vol 11, No 7, Jul 66, pp 420 - 430

Abstract [Authors' English summary modified 7: Evaluation of 389 Caesarian sections is made; the method of paramedial section was used on 250 lying animals, and the section in the left flank on 139 standing animals. The main indications for the Cesarian section were narrow delivery canals, large fetus, and inadequately opened cervix uteri. Better results from the surgical stand point were obtained in operations in the standing position. The viability of the calves is a function of the time elapsed between the onset of the delivery and the operation. 194 cows were used in further breeding; 68.56% were fertile. 4 Tables, 20 Western, 5 Czech, 1 East German reference. (Manuscript received 11 Feb 66). 1/1

113543 5/196/62/000/022/007/007 E194/E155

9.2120

Hanus, Jan, and Vrtel, Leo

Cascade current transformer AUTHORS:

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.22, 1962, 28-29, abstract 22 I 149 P. (Czech. pat. cl. 21d<sup>2</sup>, 53/01, no.99246, April 15, 1961)

The bushing-type current transformer, the construction of which is patented, withstands short-circuit currents very well. It is a two-stage cascade. The construction is similar to that of a pedestal-type current transformer, which is simpler, because in TEXT: it the short-circuit current passes only through the primary winding of the first stage, whereas in that under consideration the current must also pass through the second stage. Only the second stage is insulated for high voltage. The first stage has low-voltage insulation, so that its core (made of toroidal strip) has a very short mean magnetic path length and consequently low magnetising ampere turns. For a given accuracy this makes it magnetizing ampere curns. For a given accuracy this makes it possible to use a small rated number of ampere-turns in the first The primary winding (2) and the secondary winding (3) of stage. Card 1/5

Cascade current transformer

5/196/62/000/022/007/007 E194/E155

the first stage (see sketch) are uniformly distributed over the first core. The small number of uniformly-distributed circular turns and the small dimensions of the core give the first stage rigidity against short-circuit currents. The second stage has two primary windings (5), (6) and secondary winding (7). Its core (4) may be toroidal, or even rectangular of core or shell-type. The primary winding (5) is a continuation of winding (2) of the first stage, and short-circuit current also passes through it. For rigidity, it should have the least possible number of turns, preferably one. The conductor section of windings (2) and (5) should be designed to ensure thermal stability. A further second stage primary winding (b) is connected to the second winding of the first stage (3). The considerable burden which the second stage represents, and also the small section of the primary stage core, causes this core to saturate when the current is heavy. Therefore, the current in windings (3), (6) and (7) is considerably less than in windings (2) and (5) (it does not exceed 50 times the rated current). The section of conductors for windings (3), (6) and (7) should be selected accordingly. Windings (5) and (6) should be Card 2/5

5/196/62/000/022/007/007 E194/E155

Cascade current transformer

wound in such a way that within the core currents in them are in the same direction. The number of turns in winding (7) is based on the condition

 $I_{2}^{N_{2}} = I_{1}^{N_{1}} + I_{1}^{1} N_{1}^{1}, \quad \text{where } I_{1}, I_{1}^{1} \text{ and } I_{2}$ 

the currents in windings 5, 6 and 7, and  $N_1$ ,  $N_1^1$  and  $N_2$  are the number of turns in these windings. Since windings 5, 6 and 7 need only normal rigidity against short-circuit currents, the second stage may consist of ordinary bushing-type current transformers with porcelain insulators (with somewhat modified winding data). To these current transformers is fitted a first stage the data of which depend on the rated current, the rigidity class and the shortcircuit current. Possible variants are: 2) the first stage may be made as an autotransformer with a transformation ratio of 1:1; 3) to reduce the error, the first stage may be made with pre-magnetisation - the first stage core is divided into two unequal parts, the smaller having a premagnetising winding supplied from the terminals of an impedance connected in series with winding (6); Card 3/5

Cascade current transformer

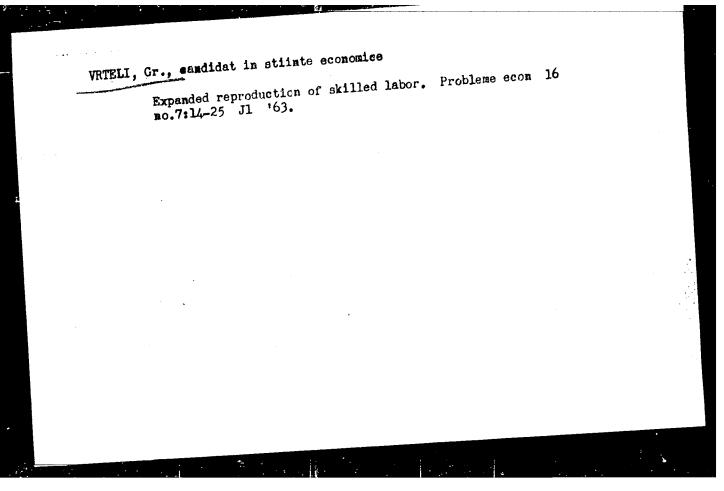
5/196/62/000/022/007/007 E194/E155

4) if the second stage core is of the shell type it is not uniformly magnetised because winding (5) passes through only one uniformly magnetised because winding (5) passes through only one of the two windows of the core; to avoid this an equalising winding is wound on the adjacent part of the core and connected in winding is wound on the adjacent part of turns in this equalising series with winding (7); the number of turns in this equalising series with winding (7); the number of turns in this equalising winding,  $N_2^1$ , is selected according to the condition  $I_1 = I_2N_2$  (supposing that winding (5) has one turn). The advantages of the (supposing that winding (5) has one turn).

construction are: high rigidity; no need for ferro-nickel alloys as in single-stage construction; the possibility of using standard multi-turn bushing transformers for the main part of the current transformer.

Abstractor's note: Complete translation.

Card 4/5



"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961220003-7 SVEDIROHOVA, Milada; TRKAN, Miroslav; VRTELOVA, Hana Selecting and testing most suitable varieties of brewing barley in Czechoslovakia. Kwasny prum 9 no.5:122-124 My 163. 1. Vyzkumny ustav pivovarsky a sladarsky, Praha, pracoviste Brno.

## CZECHOSLOVAKIA

POPLUHAR, L.; VRTIAK, J.; Chair of Infectious Diseases, Veterinary Faculty, College of Agriculture (VSP, Vetr. Fakulta, Katedra Infekcnich Chorob), Kosice.

"Latent Forms of Tuberculosis and Amergic Animals as a Source of Tuberculous Infection in Cattle."

Prague, Veterinarni Medicina, Vol 11, No 8, Aug 66, pp 523 - 528

Abstract / Authors' English summary modified /: Reexamination of 517 head of cattle originating from tuberculous environment was carried out; in 141 animals anergic conditions were found after a dose of 500, 5000, and 10000 TU. In 2 of these animals generalized form of tuberculosis was found by dissection, and in 3 calcified tuberculous changes were found. 96 other samples were taken; in 2 tuberculous organisms were found by cultivation, and in 4 by biological tests. The tuberculin test in cattle is highly reliable, but does not exclude the possibility of keeping a tuberculous animal in the herd; this may cause a new outbreak of tuberculosis. 1 Table, 15 Western, 4 Czech, 1 Russian, 1 Indian, 1 Hungarian, 1 Polish reference. (Manuscript received 10 May 65). 1/1

- 86 -

"APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961220003-7

VRTILER,	VCHUIMIK:
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	er, Establishment, Tellis to be desart 1922 Continued)  The property of the first and the class in the continued of the states and the continued of the states of the states and the continued of the states of the states and the continued of the states of th
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# VRIFIKA, V. "Cnce Again About the Lunak", P. 616, (YRIDLA VLACTI, Vol. 2, No. 26, December 1953, Praha, Czech.) SO: Nonthly List of East European Accessions (EFAI), LC, Vol. 4, No. 3, March 1955, Uncl.

# WRITHEA, V. "Come Information about National Oliving Competitions," P. 616, (URINIA WIASTI, Vol. 2, No. 26, December 1953, Iraha, Casch.) SC: Monthly List of East European Accessions (EEAL), LC, Vol. 4, No. 3, March 1955, Uncl.

POSPISIL, R.; POLONY, R.; MITTERMAYER, T.; VRTIAK, J.; za technickej spoluprace M.Cechlovskej.

Neorickettsiosis as a new anthropozoonosis and its relation to bronchopneumonia in calves. Cesk.epidem.mikrob.imun.10 no.2: 98-101 Mr '61.

1. Ustav hygieny lek.fak.Univ.P.J.Safarika v Kosiciach; Statny ved.veterinarny ustav v Kosiciach; Infekcne odd. KUNZ v Kosiciach; Klinika pre choroby infekcne vet.fak. v Kosiciach.

(BRONCHOPNEUMONIA veterinary)

(MIYAGAWANELLA infect)

### Veterinary Medicine

### CZECHOSLOVAKIA

GDOVINOVA, A.; POLONY, R.; VRTIAK. I.; ZAVADOVA, J.; Department of Infectious Diseases, Veterinary Faculty, College of Agriculture (VSP, Veterinarska Fakulta, Katedra Infekcnych Chorob), Kosice.

"Use of the Color Test in Laboratory Diagnosis of the Classical Fowl Plague."

Prague, Veterinarni Medicina, Vol 12, No 1, Jan 67, pp 19 - 25

Abstract Authors' English summary modified 7: The optimum cell concentration with the highest activity during a 4-7 day observation period was 1-2 x 100 of chicken embryonal cells. Best results were obtained in Earl's medium. Most distinctive color changes were obtained with a 10% concentration of the serum. A comparison of the results of the color test with titration in the stationary KEB test tube cultures showed practically the same values by both methods. The differences were within a single order of magnitude. 2 Tables, 8 Western, 5 Czech references. (Manuscript received 2 Jul 66).

1/1

VRTIAK, ZAPLETAL

SLOVAKIA(CZECH?)/Microbiology - Medical and Veterinary

F-4

Microbiology

Abs Jour : Referat Zhurn - Biol., No 1.6, 25 Aug 1957, 68665

Author

: Vrtiak, Zapletal

Inst Title

: Trichophyton faviforme discoides -- Producer of Ringworm

in Large Horned Cattle.

Orig Pub : Veterin. Casop., 1956, 5, No 3, 204-228

Abstract : No abstract.

Card 1/1

- 80 -

SEDLACKOVA, E.; VRTICKA, K.

Speech development in children with congenital defects of the palate. Cesk. pediat. 19 no.3:239-242 Mr.64

1. Foniatricka laborator fakulty vseobecneho lekarstvi KU v Praze; reditel: prof.dr. M.Seeman, DrSc.

### VRTICKA, Karel

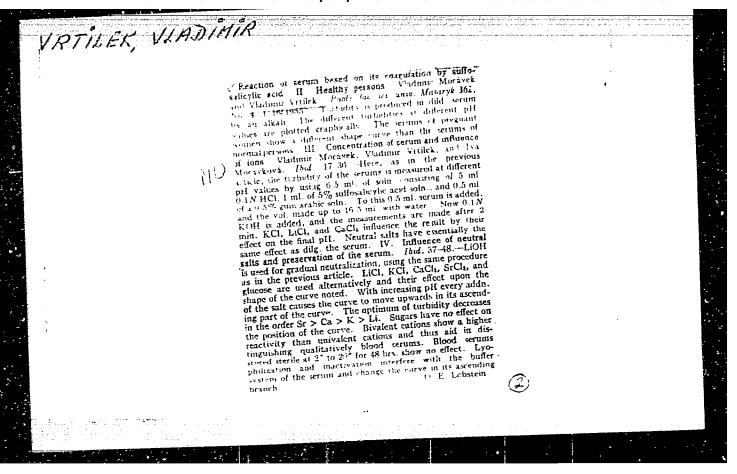
Perichondritis with consecutive necrosis of the cartilage as a late sequel of radiation injury of the larynx. Cesk.otolar. 9 no.2:120-122 '60.

1. Otolaryngologicka klinika VIA v Hradci Kralove, prednosta prof.dr. Jan Hybasek.
(RADIATION INJURY)

(RADIATION INJURY)
(LARYNGEAL CARTILAGE pathol.)
(LARYNX radiation eff.)

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KLOBEC, K., Plk., MUDr.; KOVAR, M., mjr., MUDr.; RUZNAR, St., kpt., MUDr.;
Various data on so called sinobronchitis. Cas. lek. cesk. 95 no.
37:1008-1015 14 Sept 56.

1. Posadkova nemocnice Olomouc.
(SINUSITIS, compl.
bronchial dis., statist. (Cg))
(BRONCHI, dis.
with sinusitis, statist. (Cg))
```



### VRTILEK, V.

Effect of hunger and thirst on biosynthesis of cholesterin in mics. Coll Cz chem 26 no.6:1573-1581 Je 161.

1. Abteilung für allgemeine und klinische Biochemie, Pharmazeutische Fakultat der Universitat, Brno.

(Mice) (Cholesterol)

VRTILEK, Vladimir; SLAMOVA, Ludmila; APFELT, Jiri

Changes in the cholesterol content of the body in mice after alloxan-induced diabetes. Scr. med. fac. med. Brunensis 36 no.1/2:55-60 63.

1. Katedra lekarske chemie lekarske fakulty University J.E. Purkyne v Brne Vedouci prof, dr. Oktavian Wagner Katedra biochemie a mikrobiologie farmaceuticke fakulty University Komenskeho v Bratislave Vedouci prof. DrMr. Antonin Jindra. (ALLOXAN DIABETES) (CHOLESTEROL)

WRTILEK, Vladimir; SAMKOVA, Milada

Modification of the method of Dische-Orlowski for determination of the lactic acid in the blood. Scr. med. fac. med. Brumen. 35 no.1/2:

59-66 162.

1. Oddeleni vseobecne a klinicke biochemie farmaceuticke fakulty a Ustav lekarske chemie lekarske fakulty university J.E.Purkyne v Brne Vedouci prof. dr. O. Wagner. (LACTATES blood)

VRTILEKZV.

VRILLEK V.

Solanaceae: Datura Stramomium. Cas. cesk. lek. 63:13 15 July 50

p. 149-50

NAI

GINL 19, 5, Nov. 50

### Endocrinology

CZECHOSLOVAKIA

UDC 616.633(:577.15.65)-074

VRTILEK, V.; Department of Medical Chemistry, Medical Faculty, J.E. Purkyne University (Katedra Lekarske Chemie Lek. Fak. UJEP), Brno, Head (Vedouci Katedry) Docent Dr J. SLAVIK

"Determination of Estrogens. I. Normal and Pathological Estrogen Levels in Urine."

Prague, Casopis Lekaru Ceskych, Vol 106, No 9, 3 Mar 67, pp 243 - 246

Abstract /Author's English summary modified 7: A spectrophotometric method for the determination of estrogens is described. Accuracy and reproducibility of the method, and examples of normal and pathological levels of the estrogens in urine are discussed. 4 Tables, 10 Western, 4 Czech references. (Manuscript received Mar 66).

1/1

# Estrogens in childhood and in a case of congenital adrenogenital syndrome. Cesk.pediat.15 no.11:989-997 H'60. 1. I. detska klinika v Brne, prednosta prof.dr. Brunecky. Ustav klinickych vysetrovacich metod farmac. fakulty v Brne. (ESTROGENS urine) (ADRENOGENITAL SYNDROME urine)

VRTILKOVA, V.; KALVODA, R.

Use of oscillographic polarography in quantitative analysis. Pt.21. Chem zvesti 18 no.5/6:410-413 164.

1. Institute of Polarography,  $C_{\text{zechoslovak}}$  Academy of Sciences, Prague.

VRTIFRASKI, Lenka, Dr.

Present state of medical care for school children in Serbia. Bibl.
Hig.inst.Srbije no.5:103-115 '54.

1. Institut za sdravstvenu sastitu narodnog podmlatka NR Srbije.
(SCHOOLS,
med. serv. in. Tugosl.)
(CHILD WELFARE,
med. care for school child. in Yugosl.)

GUCCLOVA, Y.; VRTIS, J.; ANTAL, J.

Effect of muscular work on blood coagulation changes in the dog. Activ. nerv. sup. 4 no.2:174-175 62.

1. Fyziologicky ustav Lekarskej fakulty University Komenskeho v Bratislave.

(EXERTION physiol) (BLOOD COAGULATION physiol)

CZECHOSLOVAKIA / Microbiology. Antibiosis and Symbiosis. Antibiotics.

F

Abs Jour

: Ref. Zhur - Biol., No. 21, 1958, No 95057

Author

Inst

: Sevcik, V.; Podojil, M.; Vrtiskova, A.

Title

: Use of Paper Chromatography for the Study of

New Antibiotics.

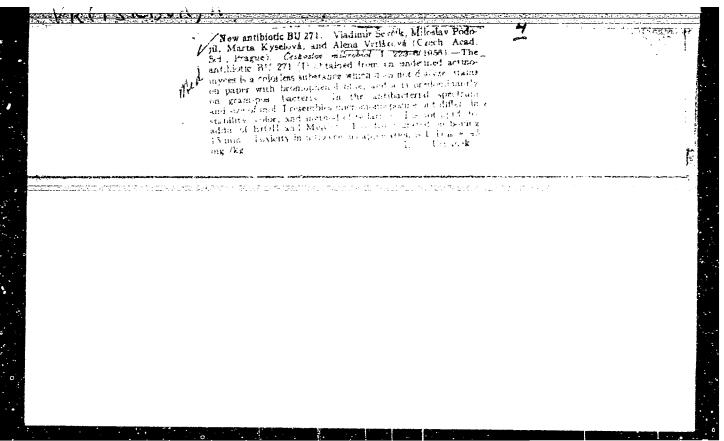
Orig Pub

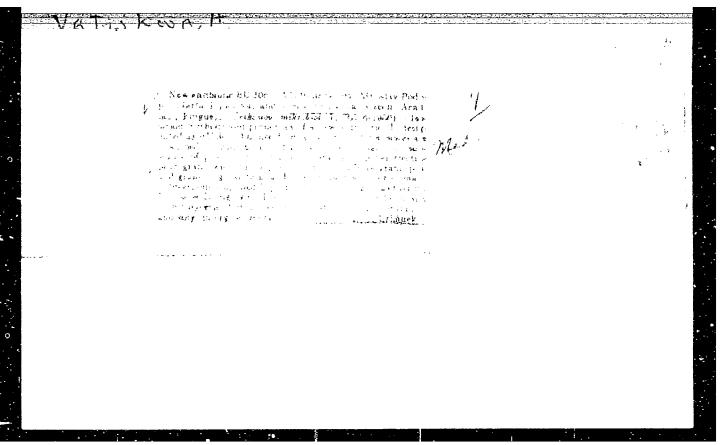
: Folia biol. (Ceskosl.), 1957, 3, No. 4, 218-225

Abstract

: No abstract.

Card 1/1





POLONY, R.; VRTYAK, G. Ya.; KOPPEL, Z.; AVGUSTINSKIY, V.

Characteristics of the course of rabies in a province. Veterinariia 39 no.5:63-65 My \*62 (MIRA 18:1)

l. Veterinarnaya bakteriologicheskaya laboratoriya i veterinarnyy fakul'tet, Koshitse.

POLONY, R., VRTYAK, O. YA., KOPPEL, Z., and AVGUSTINSKIY, V. (Veterinary Bacteriological Laboratory and Veterinary Faculty, Kosice, Czechoslovakia)

"Nature of the course of rabies in one district"

Veterinariya, vol. 39, no. 5, May 1962 p. 63

VRUBCHEV, P.

Method for controlling the fulfillment of the output norms in weaving.

P. 26, (Lika Promishlenost) Vol. 6, no. 2, 1957, Sofia, Bulgaria

SO: Monthly Index of East European Acessions (EEAI) Vol. 6, No. 11 November 1957